

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) Heat exchange unit (1) of the so-called multiservice type comprising:

a substantially cylindrical shell (2) closed at the opposite ends by respective base plates (3, 4);

a plurality of heat exchangers (13) supported inside this shell and in fluid communication with the outside thereof[[]];

~~characterised in that~~ wherein at least part of said exchangers are box-shaped plate exchangers formed from a pair of juxtaposed metallic plates (23, 24) mutually distanced and perimetrically joined, to define an inner chamber (26) intended to be crossed by a heat exchange fluid, a group of a predetermined number of said plate exchangers (13) sharing an inlet (27) and an outlet (28) so that one or more of said plate exchangers contributes to the supply of one of the predetermined services provided by the multiservice heat exchange unit (1) and different heat exchange services are combined inside said shell (2).

2. (Currently amended) Heat exchange unit according to claim 1, ~~characterised in that~~ wherein said plate exchangers (13) have a flattened configuration and are grouped in a cylindrical arrangement coaxial to the shell (2), where said plate exchangers (13) are arranged according to a radial configuration.

3. (Currently amended) Heat exchange unit according to claim 2, ~~characterised in that~~ wherein said plate heat exchangers (13) are supported in a plurality of coaxial and concentric arrangements and a group of plate exchangers (13) comprises all the exchangers (13) of a same coaxial and concentric arrangement.

4. (Currently amended) Heat exchange unit according to ~~any one of the previous~~ claim[[s]] 1, ~~characterised in that~~ wherein said substantially cylindrical shell (2) is filled with a filler in which said plurality of plate exchangers (13) is immersed.

5. (Currently amended) Heat exchange unit according to claim 1, ~~characterised in that~~ wherein said metallic plates (23, 24) of at least one plate exchanger (13) are joined together through a plurality of welding points (34) which give a substantially quilted look.

6. (Currently amended) Heat exchange unit according to claim 6, ~~characterised in that~~ wherein said welding points (34) are distributed in 'quinconce' and/or in square pitch.

7. (Currently amended) Heat exchange unit according to claim 1, ~~characterised in that~~ wherein said heat exchangers 13 have a substantially rectangular flattened configuration, with opposite long sides (21) parallel to the axis of the shell (2), and opposite short sides (22a, 22b) arranged radially inside said shell (2) and equipped on opposite short sides (22a, 22b) with connectors for the entry (27) and exit (28) of fluid.

8. (Currently amended) Heat exchange unit according to claim 8, ~~characterised in~~ that wherein at least one distributor (35) is fixed to a wall of at least one exchanger (13) in a predetermined intermediate position as regards the two opposite short sides (22a, 22b), connected, on one side, with said chamber (26) of said exchanger (13) and, on the other side, with a duct (39) for feeding fluid.

9. (Currently amended) Heat exchange unit according to claim 9, ~~characterised in~~ that wherein said distributor (35) comprises a carter (41) essentially forming a channelling which, when fixed to said metallic plate (23) of said at least one exchanger (13), forms with it a chamber (42) in communication with the inside of the exchanger (13) through a plurality of through-holes (40).

10. (Currently amended) Heat exchange unit according to claim 1, ~~characterised in~~ that wherein at least one of said exchangers (13) is internally equipped with a separator plate (46), extending from one side (22a) of said exchanger (13), towards a side (22b) opposite it and from which said plate (46) is in a predetermined spaced relationship, said separator plate (46) having a predetermined length less than that of said long sides (21), as to which it has a predetermined inclination.

11. (Currently amended) Heat exchange unit according to claim 1, ~~characterised in~~ that wherein at least one of said exchangers (13) is internally equipped in correspondence with

the opposite long sides (21) of at least one distributor/collector duct (48), said duct (48) being connected, on one side, to said chamber (26) through at least one opening (50) and, on the other side, to the outside of the exchanger (13), through a connector (27).

12. (Currently amended) Heat exchange unit according to claim 12, ~~characterised~~
~~in that~~ wherein said duct (48) is formed directly in a long side (21) of the exchanger (13).

13. (Currently amended) Heat exchange unit according to claim 12, ~~characterised~~
~~in that~~ wherein said at least one exchanger (13) is subdivided into a plurality of chambers (55).

14. (Currently amended) Heat exchange unit according to claim 8, ~~characterised in~~
~~that~~ wherein said plate exchangers (13) define an inner chamber (26) of variable size growing
in the direction of the imaginary line joining the connectors (27, 28).

15. (Currently amended) Heat exchange unit according to claim 8, ~~characterised in~~
~~that~~ wherein said plate exchangers (13) define an inner chamber (26) of variable size decreasing
in the direction of the imaginary line joining the connectors (27, 28).